

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: SHAPER

Report Number: P402547

Luminaire Tested: **ShSe-CIR-3-L35-80-UNV-STD**

Issue Date: 6/5/2020

Test Information

Test Method: LM-79-08
Report Number: P402547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2004-737-3)
Test Lab: INNOVATIONS CENTER
Issue Date: 6/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: ShSe-CIR-3-L35-80-UNV-STD
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 3
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

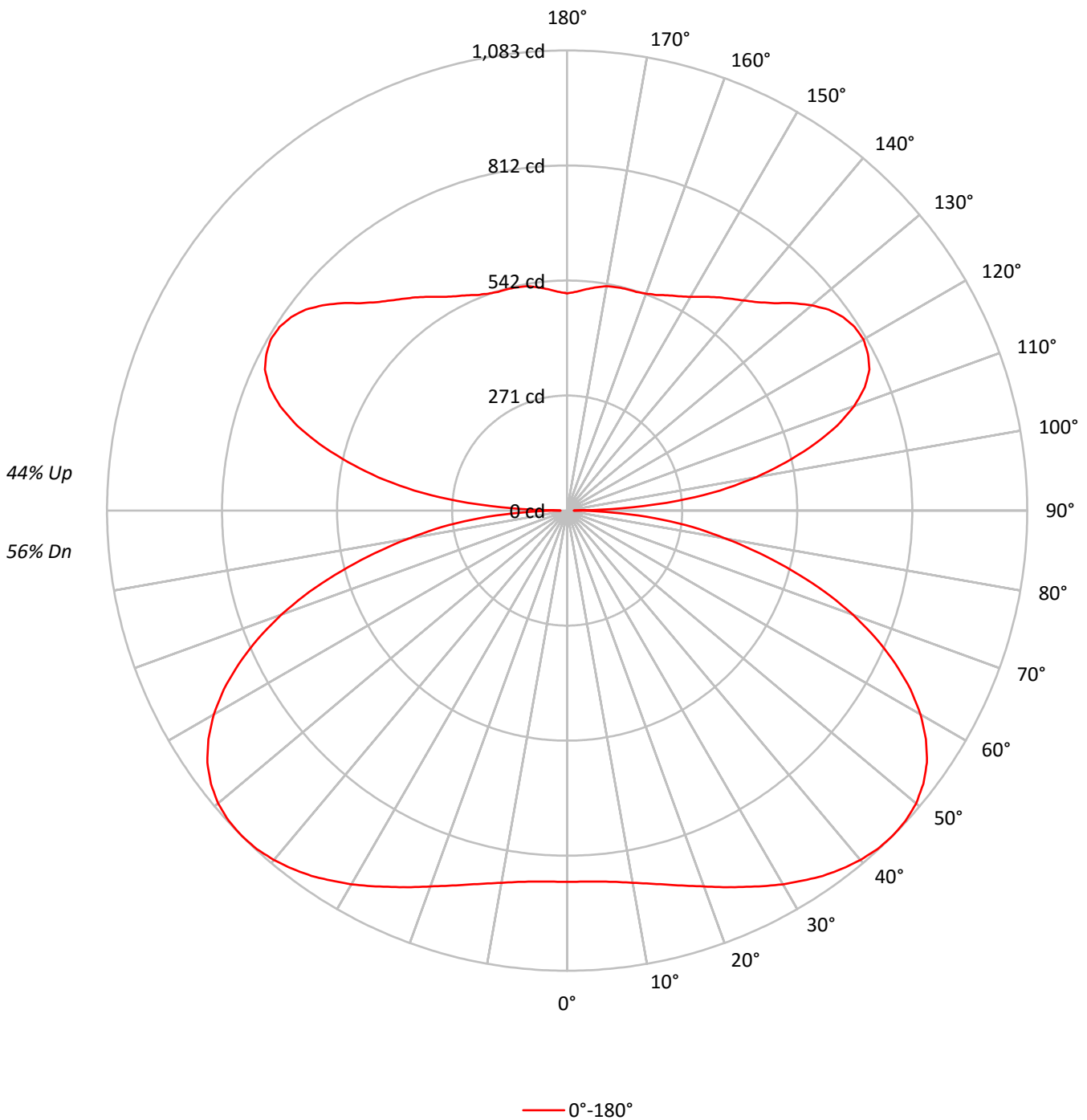
Lumens per Lamp: N/A
Luminaire Lumens: 8613.3 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Spacing Criteria (0/90/45): 1.82 / 1.82 / 1.92
Luminous Opening: Circular (Dia: 1.88' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	98	92	88	84	90	86	82	78	74	71	68	62	60	58	52	50	49	44
2	88	79	72	66	81	73	67	62	63	58	54	53	50	46	44	41	39	35
3	79	68	60	53	73	63	56	50	54	49	44	46	41	38	38	35	32	28
4	72	60	51	44	66	55	48	41	47	41	36	40	35	31	33	29	26	23
5	65	53	44	37	60	49	41	35	42	35	30	35	30	26	29	25	22	19
6	60	47	38	31	55	43	35	30	37	31	26	31	26	22	26	22	19	16
7	55	42	33	27	51	39	31	26	33	27	22	28	23	19	23	19	16	14
8	51	38	29	24	47	35	28	22	30	24	20	26	21	17	21	17	14	12
9	47	34	26	21	44	32	25	20	28	21	17	23	18	15	20	16	13	10
10	44	31	23	18	41	29	22	17	25	19	15	22	17	13	18	14	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3407
5°	3429
10°	3521
15°	3677
20°	3905
25°	4204
30°	4572
35°	4994
40°	5462
45°	5971
50°	6503
55°	7026
60°	7488
65°	7862
70°	8152
75°	8274
80°	8499
85°	9303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.1	1.0
10°-20°	259.5	3.0
20°-30°	453.6	5.3
30°-40°	658.6	7.6
40°-50°	835.8	9.7
50°-60°	920.4	10.7
60°-70°	839.3	9.7
70°-80°	579.5	6.7
80°-90°	220.8	2.6
90°-100°	268.3	3.1
100°-110°	629.2	7.3
110°-120°	769.7	8.9
120°-130°	707.3	8.2
130°-140°	538.5	6.3
140°-150°	385.7	4.5
150°-160°	259.6	3.0
160°-170°	153.0	1.8
170°-180°	50.3	0.6
0°-30°	797.2	9.3
0°-40°	1455.8	16.9
0°-60°	3212.1	37.3
0°-90°	4851.8	56.3
90°-120°	1667.1	19.4
90°-150°	3298.6	38.3
90°-180°	3762.0	43.7
0°-180°	8613.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	874	
5°	876	84
15°	911	260
25°	977	454
35°	1049	659
45°	1083	836
55°	1034	920
65°	852	839
75°	549	580
85°	208	204
90°	16	37
95°	261	249
105°	602	629
115°	785	770
125°	793	707
135°	690	539
145°	613	386
155°	559	260
165°	540	153
175°	523	50
180°	511	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	873.9
2.5°	873.9
5°	876.3
7.5°	881.1
10°	889.5
12.5°	899.1
15°	911.2
17.5°	925.6
20°	941.2
22.5°	959.2
25°	977.3
27.5°	996.5
30°	1015.7
32.5°	1032.6
35°	1049.4
37.5°	1062.6
40°	1073.4
42.5°	1080.6
45°	1083.0
47.5°	1080.6
50°	1072.2
52.5°	1056.6
55°	1033.8
57.5°	1001.3
60°	960.4
62.5°	911.2
65°	852.3
67.5°	787.3
70°	715.2
72.5°	635.9
75°	549.3
77.5°	464.0
80°	378.6
82.5°	298.1
85°	208.0
87.5°	108.2
90°	15.6
92.5°	128.6
95°	260.8
97.5°	363.0
100°	450.8
102.5°	528.9
105°	602.2
107.5°	667.1
110°	718.8



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	758.5
115°	784.9
117.5°	798.2
120°	805.4
122.5°	803.0
125°	793.4
127.5°	776.5
130°	751.3
132.5°	722.4
135°	690.0
137.5°	664.7
140°	645.5
142.5°	628.7
145°	613.0
147.5°	596.2
150°	580.6
152.5°	568.6
155°	559.0
157.5°	549.3
160°	543.3
162.5°	539.7
165°	539.7
167.5°	538.5
170°	536.1
172.5°	530.1
175°	522.9
177.5°	515.7
180°	510.9

(END OF REPORT)